

ETS DB DB2 11 nfm RW/UTRO check lob shrlevel change

Case

TS002527571

Legacy problem number

41158,010,678

Status

Waiting for IBM

Product

z/OS

Description

*** Electronic submission by customer via SR tool, version 3.4.16d

*** Preferred contact method: Email-address.

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Problem Details

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Product or Service: DB2 11 for z/OS - Base 11.1.0

Component ID: 5740XYR00

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Operating System: z/OS

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Problem title

ETS DB DB2 11 nfm RW/UTRO check lob shrlevel change

.

Problem description and business impact

we are running:

DIAGNOSE TYPE(100,101,102)

CHECK LOB TABLESPACE CC00011D.CC00001B

SHRLEVEL CHANGE PUNCHDDN SYSPUNCH

using:

5695-DF175 DFSMSDSS V2R02.0 DATA SET SERVICES

DSNT397I -DEDA 192

NAME TYPE PART STATUS CONNID CORRID

CC00001B LS RW,UTRO UTILITY C000201I

- MEMBER NAME DEDA

***** DISPLAY OF DATABASE CC00011D ENDED *****

.

*** --- FOR SR USE ONLY ---
*** XRQXSRprNode1601562309648772
*** CAG849304 ENG Y
*** MTS
*** 5697P43:B10/5740XYR00:B1Z (PREF)

Product Area

Product Version

B10

System Down

Severity

2 - Significant impact (any system is down)

Created

5 Jul 2019(27 days old)
9:01 AM

Customer

IBM SERVICE DELIVERY CENTER

Client reference number

IBM customer number

0992202

Geography

DK

Team

MF Support L2&L3 (case owner)

Case history

1 Aug 2019

03:20 PM CEST

MF Support L2&L3 (Customer)

John Campbell and Florence Dubois will visit us in Denmark Late August. We will discuss it with them. We expected this to be a full concurrent solution. As it works it doesn't seem to be usable for us.

11:48 AM CEST

tom wai (IBM) changed Status from *IBM is working* to *Awaiting your feedback*.

11:48 AM CEST

tom wai (IBM)

11:45 AM CEST

tom wai (IBM)

Hi there,

I checked with a DB2 SME about your concern and got her feedback at 7/22 6:31PM that the setting of UTRO and the drain on LOB tablespace are done before invoking copy to shadow processing. The create of shadow dataset is done by ADRDSSU during the copy, because DB2 thinks ADRDSSU can work with SMS and/or PPRC to best allocate the dataset by picking appropriate volumes according to the environment. This is same for CHECK INDEX/CHECK DATA/CHECK LOB with SHRLEVEL CHANGE option since 2006. It looks to me this request is not something can be done quickly and needs to communicate with other part, eg. ADRDSSU. Anyway, you can open a requirement by using the following link to DB2 development for this and they would evaluate if this can be enhanced or not.

<https://ibmanalytics.ideas.aha.io/> (<https://ibmanalytics.ideas.aha.io/>)

Brgds. - Tom Wai

Action taken: update PMR for customer to review and see if a RFE is needed.

Action plan : await customer to review / feedback / PMR close.

31 Jul 2019

09:59 AM CEST

Jürgen Hörner (IBM) changed Status from *Waiting for IBM* to *IBM is working*.

09:59 AM CEST

Jürgen Hörner (IBM)

Dear client,

I've informed Tom leave it for him to continue during his business hours.

If an immediate contact is required, please let us know.

Thank you for understanding and patience, Juergen(for Tom).

09:13 AM CEST

MF Support L2&L3 (Customer)

Look forward to get your updates

09:13 AM CEST

MF Support L2&L3 (Customer) changed Status from *Case is Opened* to *Waiting for IBM*.

09:13 AM CEST

MF Support L2&L3 (Customer) changed Status from *Closed by Client* to *Case is Opened*.

30 Jul 2019

08:12 AM CEST

MF Support L2&L3 (Customer) changed Status from *IBM is working* to *Closed by Client*.

29 Jul 2019

11:30 AM CEST

Kristina (Kris) Gryaznova (IBM) changed Status from *Waiting for IBM* to *IBM is working*.

11:30 AM CEST

Kristina (Kris) Gryaznova (IBM)

Dear customer,

I informed Tom that the case require his attention and you requested an update. He will continue in his business hours.

If immediate contact is required, please let us know.

Thank you for understanding and have a nice day, Kris.

10:58 AM CEST

MF Support L2&L3 (Customer) changed Status from *IBM is working* to *Waiting for IBM*.

10:58 AM CEST

MF Support L2&L3 (Customer)

Can you share your updates on the matter?

28 Jul 2019

12:51 PM CEST

Dirk Gutschke (IBM) changed Status from *New Case* to *IBM is working*.

05:32 AM CEST

ECUREP (IBM)

data was migrated from PMR: 41158,010,678

migrated 0 customer files and 0 mails

<https://ecurep.mainz.de.ibm.com/ae5/#id=TS002527571>

05:31 AM CEST

Support ETL (IBM) created this case

22 Jul 2019

01:12 PM CEST

Support ETL (IBM)

ACTION TAKEN/PLAN: Update noted - Tom will have a look at the PMR at his business hours.

12:31 PM CEST

Support ETL (IBM)

Action Taken:

Hello Tom,

I checked the CHECK LOB code. The setting of UTRO and the drain on LOB tablespace are done before invoking copy to shadow processing. The create of shadow dataset is done by ADRDSSU during the copy, because Db2 thinks ADRDSSU can work with SMS and/or PPRC to best allocate the dataset by picking appropriate volumes according to the environment. This is same for CHECK INDEX/CHECK DATA/CHECK LOB with SHRLEVEL CHANGE option since 2006.

It looks to me this request is not something can be done quickly and needs to communicate with other part, eg. ADRDSSU. I searched, and there seems no other customer has the same request. Anyway, customer can open requirement to Db2 development for this. Development would evaluate the possibility.

Thanks, Min Fang - Db2 for z/OS Client Success

Action Plan:

Wait for feedback

19 Jul 2019

01:57 PM CEST

Support ETL (IBM)

To WDB2U,117 for Jin Di attention.

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Best Regards - Jose (Db2 for Z/OS Duty)

01:54 PM CEST

Support ETL (IBM)

Hello DB2/UT SME,

I tried to warm transfer this secondary PMR for consultation but I could not find anyone in my time zone, so I cold transfer it for your review and support. I personally think the request/suggestion by the customer is reasonable, please review and advise how it can be done.

-

The request/suggestion:

we still think that there should be some check in the job to secure that we have enough DASD space available before we start the CHECK LOB.

-

The job can allocate the DASD space before it set the tablespace to RW/UTRO or kind of check by using the RTS real time statistics to calculate the needed DASD space, and stop the job from running if DASD space is not available.

-

Brgds. - Tom Wai

Action taken: update and queue PMR for DB2/UT SME's support.

Action plan : await DB2 SME's review/feedback/suggestion. FUP 7/22.

12:54 PM CEST

Support ETL (IBM)

Action taken: noted customer's update and concern.

Action plan : review.

10:45 AM CEST

Support ETL (IBM)

Sent an e-mail to Tom in order to inform him about client update.

10:36 AM CEST

Support ETL (IBM)

*** Electronic submission by customer via SR tool, version 3.4.16e

*** Preferred contact method: Email-address.

.

Additional comments

noone will use this CHECK LOB Fastcopy when the amount of time that the tablespace is in RW/UTRO is unpredictable .

we cannot do that in an online environment , so we have to do it in the service windows

poup@danskebank.dk

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08:36 AM CEST

Support ETL (IBM)

*** Electronic submission by customer via SR tool, version 3.4.16e

*** Preferred contact method: Email-address.

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Additional comments

we still think that there should be some check in the job to secure that we have enough dasd space available before we start the CHECK LOB -

the job could allocate the dasd space before it set the tablespace RW/UTRO - or kind of check using the RTS real time statistics to calculate the needed DASD space.

and stop the job from running if dasd space is not available.

/poup@danskebank.dk

.

17 Jul 2019

10:24 AM CEST

Support ETL (IBM)

Hello,

Is there anything we need to follow up or is it okay now to close the PMR ? Please check and advise. Thanks.

Brgds. - Tom Wai

Action taken: follow up with the customer about this PMR status.

Action plan : await the customer's review/feedback. FUP 7/19.

12 Jul 2019

12:56 PM CEST

Support ETL (IBM)

Hello,

Regarding the diagnostic codes, I found the explanations as follows:

-

Return Code Description 7707 (X'1E1B') rc1E1B :

For a FlashCopy Request, the AOM component detected a subsystem I/O error. The error occurred at the secondary for a Preserve Mirror operation.

-

Reason Code Description (X'0FAE') rsn0FAE :

FlashCopy establish target track is an active target track. This is because of a conflict with an existing FlashCopy relationship, or because of the ESS completing an establish request after system Missing Interrupt Handler (MIH) processing is initiated.

-

DS8K x0FAE 0FAE Explanation:

An establish FlashCopy command cannot complete because it has specified that an existing target track become a target track. Any single track may not be both a source and a target track, and a target track may only have one source.

-

-

I have reviewed and compared the joblogs with the finding that when you got message IGD17291I about dataset allocation failure using best-fit and space constraint relief will be attempted, then the processing time of the CHECK LOB or DSS COPY jobs will be prolonged. For instance:

-

ONTOP.GS010.P41158.C678.SIBM.PMR41158.CHE.OL shows:

JOB32141 ---- FRIDAY, 05 JUL 2019 ----

-

IGD17291I DATA SET DEDA.DSNDBC.CC00011D.CC00001B.J0001.A001 002
COULD NOT BE ALLOCATED USING BEST-FIT
SPACE CONSTRAINT RELIEF (5 EXTENT LIMIT RELIEF) WILL BE
ATTEMPTED
IGD17286I SPACE CONSTRAINT RELIEF WAS USED TO ALLOCATE DATA SET
DEDA.DSNDBC.CC00011D.CC00001B.J0001.A001,
THE 5 EXTENT LIMIT WAS RELAXED

-

This is a SMS config / setup issue and is nothing wrong with DB2 and/or Flashcopy. You please review and compare the two DSS (ADRDSU) jobs, then you will see the difference though they do the same data set copy.

-

- 1) JOB20009 - 09 JUL 2019 (ONTOP.GS010.P41158.C678.SIBM.PMR41158.JOB1.D)
- 2) JOB42164 - 12 JUL 2019 (ONTOP.GS010.P41158.C678.SIBM.PMR41158.JOB4.E)

-

I would suggest you add storage (DASDs) to the target storage pool or the storage group so that the output data set can be successfully allocated to resolve the issue of prolonged processing time. If you have any question with it, please let me know.

Brgds. - Tom Wai

Action taken: update PMR with findings/suggestion to customer.

Action plan : pending customer's review/test/feedback. FUP 7/16.

11:40 AM CEST

Support ETL (IBM)

Action Taken/Plan:

Move to DFP,36D, Tom will continue on this problem.

Thanks! Jin Di, Db2/z client success.

09:46 AM CEST

Support ETL (IBM)

*** Electronic submission by customer via SR tool, version 3.4.16d

*** Preferred contact method: Email-address.

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Additional comments

i have send 5 jobs - and if the job is able to create the shadow dataset in 33 extends - the RW/UTRO phase is 1 second.

we have to find a way to either preallocate the dataset

before we set the dataset to RW/UTRO or secure that the job first detect if disk space is available and large enough to do the RW/UTRO phase in a very short time - (1 second)
/POUP@danskebank.dk.

we also see that when a job is cancelled or it abends - the shadow dataset is kept and will stay allocated as a 'J' dataset forever - unless you restart the failed job - the restarted job then abends and delete the 'J' shadow dataset

.
09:40 AM CEST

Support ETL (IBM)

Tom is informed about new docs.

09:35 AM CEST

Support ETL (IBM)

Action Taken/Plan:

Hello, Tom

Please read update from customer.

Thank you! Jin Di, Db2/z client success.

09:10 AM CEST

Support ETL (IBM)

No call generated. Call without CSTATUS exists on Queue: WDB2U,117

09:10 AM CEST

Support ETL (IBM)

Untersed data now available on MCEVS1-System :

/ecurep/pmr/4/1/41158,010,678/mftp23/41158.010.678.SIBM.PMR41158.JOB2.

EXTEND.E2226.D19193.e.T64911.MTFTP.F001

->ONTOP.GS010.P41158.C678.SIBM.PMR41158.JOB.AY

09:05 AM CEST

Support ETL (IBM)

No call generated. Call without CSTATUS exists on Queue: WDB2U,117

09:05 AM CEST

Support ETL (IBM)

Untersed data now available on MCEVS1-System :

/ecurep/pmr/4/1/41158,010,678/mftp22/41158.010.678.SIBM.PMR41158.JOB1.

EXTEND.E33.D19193.e.T64569.MTFTP.F001

->ONTOP.GS010.P41158.C678.SIBM.PMR41158.JOB.NC

09:05 AM CEST

Support ETL (IBM)

No call generated. Call without CSTATUS exists on Queue: WDB2U,117

09:05 AM CEST

Support ETL (IBM)

Untersed data now available on MCEVS1-System :

/ecurep/pmr/4/1/41158,010,678/mftp20/41158.010.678.SIBM.PMR41158.JOB4.

EXTEND.E41.D19193.e.T63E26.MTFTP.F001

->ONTOP.GS010.P41158.C678.SIBM.PMR41158.JOB4.E

09:05 AM CEST

Support ETL (IBM)

No call generated. Call without CSTATUS exists on Queue: WDB2U,117

09:05 AM CEST

Support ETL (IBM)

Untersed data now available on MCEVS1-System :

/ecurep/pmr/4/1/41158,010,678/mtftp21/41158.010.678.SIBM.PMR41158.JOB5.
EXTEND.E31.D19193.e.T641CD.MTFTP.F001

->ONTOP.GS010.P41158.C678.SIBM.PMR41158.JOB5.E

09:05 AM CEST

Support ETL (IBM)

No call generated. Call without CSTATUS exists on Queue: WDB2U,117

09:05 AM CEST

Support ETL (IBM)

Untersed data now available on MCEVS1-System :

/ecurep/pmr/4/1/41158,010,678/mtftp17/41158.010.678.SIBM.PMR41158.JOB1.
EXTEND.E33.19193.e.T6334E.MTFTP.F001

->ONTOP.GS010.P41158.C678.SIBM.PMR41158.JOB1.E

09:05 AM CEST

Support ETL (IBM)

No call generated. Call without CSTATUS exists on Queue: WDB2U,117

09:05 AM CEST

Support ETL (IBM)

Untersed data now available on MCEVS1-System :

/ecurep/pmr/4/1/41158,010,678/mtftp19/41158.010.678.SIBM.PMR41158.JOB3.
EXTEND.E33.D19193.e.T63A8C.MTFTP.F001

->ONTOP.GS010.P41158.C678.SIBM.PMR41158.JOB3.E

09:05 AM CEST

Support ETL (IBM)

No call generated. Call without CSTATUS exists on Queue: WDB2U,117

09:05 AM CEST

Support ETL (IBM)

Untersed data now available on MCEVS1-System :

/ecurep/pmr/4/1/41158,010,678/mtftp18/41158.010.678.SIBM.PMR41158.JOB2.
EXTEND.E2226.19193.e.T636ED.MTFTP.F001

->ONTOP.GS010.P41158.C678.SIBM.PMR41158.JOB2.E

08:51 AM CEST

Support ETL (IBM)

No call generated. Call without CSTATUS exists on Queue: WDB2U,117

08:51 AM CEST

Support ETL (IBM)

Multiple file transfer

41158.010.678.SIBM.PMR41158.JOB2.EXTEND.E2226.D19193.e.T64911.MTFTP

received:

Directory: /ecurep/pmr/4/1/41158,010,678/mtftp23

4 files total size: 204800 bytes

08:50 AM CEST

Support ETL (IBM)

ACTION TAKEN: informed Tom about new docs...

08:47 AM CEST

Support ETL (IBM)

No call generated. Call without CSTATUS exists on Queue: WDB2U,117

08:47 AM CEST

Support ETL (IBM)

Multiple file transfer

41158.010.678.SIBM.PMR41158.JOB1.EXTEND.E33.D19193.e.T64569.MTFTP

received:

Directory: /ecurep/pmr/4/1/41158,010,678/mtftp22

4 files total size: 53248 bytes

08:46 AM CEST

Support ETL (IBM)

No call generated. Call without CSTATUS exists on Queue: WDB2U,117

08:46 AM CEST

Support ETL (IBM)

Multiple file transfer

41158.010.678.SIBM.PMR41158.JOB5.EXTEND.E31.D19193.e.T641CD.MTFTP

received:

Directory: /ecurep/pmr/4/1/41158,010,678/mtftp21

4 files total size: 20480 bytes

08:45 AM CEST

Support ETL (IBM)

No call generated. Call without CSTATUS exists on Queue: WDB2U,117

08:45 AM CEST

Support ETL (IBM)

Multiple file transfer

41158.010.678.SIBM.PMR41158.JOB4.EXTEND.E41.D19193.e.T63E26.MTFTP

received:

Directory: /ecurep/pmr/4/1/41158,010,678/mtftp20

4 files total size: 24576 bytes

08:44 AM CEST

Support ETL (IBM)

No call generated. Call without CSTATUS exists on Queue: WDB2U,117

08:44 AM CEST

Support ETL (IBM)

Multiple file transfer

41158.010.678.SIBM.PMR41158.JOB3.EXTEND.E33.D19193.e.T63A8C.MTFTP

received:

Directory: /ecurep/pmr/4/1/41158,010,678/mtftp19

4 files total size: 57344 bytes

08:43 AM CEST

Support ETL (IBM)

No call generated. Call without CSTATUS exists on Queue: WDB2U,117

08:43 AM CEST

Support ETL (IBM)

Multiple file transfer

41158.010.678.SIBM.PMR41158.JOB2.EXTEND.E2226.19193.e.T636ED.MTFTP

received:

Directory: /ecurep/pmr/4/1/41158,010,678/mtftp18

4 files total size: 204800 bytes

08:43 AM CEST

Support ETL (IBM)

No call generated. Call without CSTATUS exists on Queue: WDB2U,117

08:43 AM CEST

Support ETL (IBM)

Multiple file transfer

41158.010.678.SIBM.PMR41158.JOB1.EXTEND.E33.19193.e.T6334E.MTFTP

received:

Directory: /ecurep/pmr/4/1/41158,010,678/mtftp17

4 files total size: 53248 bytes

08:01 AM CEST

Support ETL (IBM)

*** Electronic submission by customer via SR tool, version 3.4.16d

*** Preferred contact method: Email-address.

.

Additional comments

Looks like we have a breakthrough.

It appears like the the number of extends required for the output dataset defines the time to create the flashcopy(meaning the time the table is UTRO. It is even so that it sometimes fails (cc=8). Seen when the output DS required like 4000 extends to happens. We will attach some jobs that illustrates our observations.

So! If we run the utility to output datasets where we have alot of good extends to allocate on it works okay. Jobs where we try to document our observations will be attached.

.

03:29 AM CEST

Support ETL (IBM)

Action taken: noted the customer's update and request.

Action plan : review with team.

03:17 AM CEST

Support ETL (IBM)

Action Taken/Plan:

Hi, Tom

Please read customer's update and advise.

Thank you! Jin Di, DB2/z client success.

11 Jul 2019

01:50 PM CEST

Support ETL (IBM)

*** Electronic submission by customer via SR tool, version 3.4.16d

*** Preferred contact method: Email-address.

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Additional comments

1. We can't recreate the proces. All runs ends now with below. Please assist on this Q: What does these diag messages mean? 00001E1B-08040FAE??

ADR935W (001)-T0MI (03), 2019.192 13:05:12 A FAILURE OCCURRED WHILE ATTEMPTING TO PERFORM FAST REPLICATION FOR DATA SET DEDA.DSNDBC.CC00011D.CC00001B.I0001.A001 ON VOLUME G2DT46.

DIAGNOSTIC INFORMATION: 00001E1B-08040FAE

ADR938E (001)-MOVER(01), FASTREPLICATION(REQUIRED) WAS SPECIFIED BUT FAST REPLICATION COULD NOT BE USED FOR DATA SET

DEDA.DSNDBC.CC00011D.CC00001B.I0001.

A001

ADR801I (001)-DDDS (01), 2019.192 13:05:13 DATA SET FILTERING IS COMPLETE. 1 OF 1 DATA SETS WERE SELECTED: 0 FAILED SERIALIZATION

2. We will try to recreate here somehow, but as mentioned without success so far. May I ask you to do similar DSS job on the Montpellier environment - on a very large dataset instead located on many volumes with high number of extends?

3. We will wait with the GTF trace until we are certain on what situation you want us to bring more diagnosis information on.

.

10:40 AM CEST

Support ETL (IBM)

Action Taken/Plan:

Hello,

Can you please read update from Tom and provide GTF trace for further diagnosis.

Thank you! Jin Di, Db2/z client success.

09:40 AM CEST

Support ETL (IBM)

To WDB2U,117 for Jin Di attention,

.

Best Regards - Jose (Db2 for Z/OS Duty)

09:31 AM CEST

Support ETL (IBM)

Hello Jindi,

I reviewed the new docs. Even from the DSS batch job (JOB20009), running with no DB2 involved, it took about 1.5 minutes to run with Fast Replication function being used. In order to compare, I got someone to test a similar job in the MOP Dual-Leg environment with GDPS Metro 4.2. It just completed in less than 1 second for a dataset of 1500 tracks. Therefore, in order for me to continue the diagnosis here, please enable a GTF CCW trace and help to run a DSS (adrdssu) batch job to recreate the long processing issue with fast replication function being used. When it's done, please terse and upload the GTF trace for my review. If you have any question, please let me know.

-
The GTF CCW trace setup:

- 1) Set up a new GTF output dataset of 500 cylinders.
- 2) Start GTF CCW trace
S GTF.jobname,,,(MODE=EXT,TIME=YES),DSN=gtf.output.dataset.name
R nn,TRACE=JOBNAMEP,CCWP,HSCH,CSCH,MSCH,PCI
R nn,JOBNAME=batch.jobname,CCW=(SI,DATA=96,CCWN=256,IOSB),END
R nn,U
- 3) Recreate the DSS batch long processing time.
- 4) Stop GTF trace: P GTF.jobname

-
Brgds. - Tom Wai

Action taken: update PMR with finding and request of GTF trace.

Action plan : await GTF trace for analysis. FUP 7/12.

10 Jul 2019

04:18 AM CEST

Support ETL (IBM)

Action taken: noted the update by DB2 SME Jindi.

Action plan : review the docs newly uploaded.

04:04 AM CEST

Support ETL (IBM)

Action Taken/Plan:

Hi, Tom

Can you please help check syslog? also there were some failures during flashcopy.

Thanks! Jin Di, Db2/z client success.

9 Jul 2019

03:15 PM CEST

Support ETL (IBM)

*** Electronic submission by customer via SR tool, version 3.4.16d

*** Preferred contact method: Email-address.

.

Additional comments

we also send the sysibm.systablespacestats

for LOB CC00011D.CC00001B

in file: SIBM.PMR41158.DB2.STATS

we can see in the job its takes about from

11.16.30 to 11.19.56 - 3min 26 seconds

to allocate all the extents

IGD104I SYS19190.T111630.RA000

to

IGD104I SYS19190.T111956.RA000

.

03:15 PM CEST

Support ETL (IBM)

No call generated. Queue (NEXTQUEUE) WDB2U,117 is defined to disable secondary call creation.

03:15 PM CEST

Support ETL (IBM)

Untersed data now available on MCEVS1-System :

/ecurep/pmr/4/1/41158,010,678/mtftp16/41158.010.678.SIBM.PMR41158.DB2.S

TATS.e.TF8F9B.MTFTP.F001

->ONTOP.GS010.P41158.C678.SIBM.PMR41158.DB2.ST

03:12 PM CEST

Support ETL (IBM)

No call generated. Queue (NEXTQUEUE) WDB2U,117 is defined to disable secondary call creation.

03:12 PM CEST

Support ETL (IBM)

Multiple file transfer

41158.010.678.SIBM.PMR41158.DB2.STATS.e.TF8F9B.MTFTP received:

Directory: /ecurep/pmr/4/1/41158,010,678/mtftp16

4 files total size: 20480 bytes

02:53 PM CEST

Support ETL (IBM)

Noted docs arrival; notified jin Di about it.

02:26 PM CEST

Support ETL (IBM)

*** Electronic submission by customer via SR tool, version 3.4.16d

*** Preferred contact method: Email-address.

.

Additional comments

operlog from 08:00:02 is send in this file

SIBM.PMR41158.OPERLOG2.D19190

poul@danskebank.dk

.

01:50 PM CEST

Support ETL (IBM)

No call generated. Call without CSTATUS exists on Queue: WDB2U,117

01:50 PM CEST

Support ETL (IBM)

Untersed data now available on MCEVS1-System :

/ecurep/pmr/4/1/41158,010,678/mtftp15/41158.010.678.SIBM.PMR41158.OPERL
OG2.D19190.e.TE5D70.MTFTP.F001

->ONTOP.GS010.P41158.C678.SIBM.PMR41158.OPE.XD

01:47 PM CEST

Support ETL (IBM)

No call generated. Call without CSTATUS exists on Queue: WDB2U,117

01:47 PM CEST

Support ETL (IBM)

Multiple file transfer

41158.010.678.SIBM.PMR41158.OPERLOG2.D19190.e.TE5D70.MTFTP received:

Directory: /ecurep/pmr/4/1/41158,010,678/mtftp15

4 files total size: 48275456 bytes

01:46 PM CEST

Support ETL (IBM)

No call generated. Call without CSTATUS exists on Queue: WDB2U,117

01:46 PM CEST

Support ETL (IBM)

First file of multiple file transfer

41158.010.678.SIBM.PMR41158.OPERLOG2.D19190.e.TE5D70.MTFTP received

01:10 PM CEST

Support ETL (IBM)

No call generated. Call without CSTATUS exists on Queue: WDB2U,117

01:10 PM CEST

Support ETL (IBM)

Untersed data now available on MCEVS1-System :

/ecurep/pmr/4/1/41158,010,678/mtftp14/41158.010.678.SIBM.PMR41158.JOB5.
D19190.e.TDD51C.MTFTP.F001

->ONTOP.GS010.P41158.C678.SIBM.PMR41158.JOB5.D

01:10 PM CEST

Support ETL (IBM)

No call generated. Call without CSTATUS exists on Queue: WDB2U,117

01:10 PM CEST

Support ETL (IBM)

Untersed data now available on MCEVS1-System :

/ecurep/pmr/4/1/41158,010,678/mtftp10/41158.010.678.SIBM.PMR41158.JOB1.
D19190.e.TDC647.MTFTP.F001

->ONTOP.GS010.P41158.C678.SIBM.PMR41158.JOB1.D

01:10 PM CEST

Support ETL (IBM)

No call generated. Call without CSTATUS exists on Queue: WDB2U,117

01:10 PM CEST

Support ETL (IBM)

Untersed data now available on MCEVS1-System :

/ecurep/pmr/4/1/41158,010,678/mtftp11/41158.010.678.SIBM.PMR41158.JOB2.
D19190.e.TDC9F7.MTFTP.F001

->ONTOP.GS010.P41158.C678.SIBM.PMR41158.JOB2.D

01:10 PM CEST

Support ETL (IBM)

No call generated. Call without CSTATUS exists on Queue: WDB2U,117

01:10 PM CEST

Support ETL (IBM)

Untersed data now available on MCEVS1-System :

/ecurep/pmr/4/1/41158,010,678/mtftp12/41158.010.678.SIBM.PMR41158.JOB4.
D19190.e.TDD16A.MTFTP.F001

->ONTOP.GS010.P41158.C678.SIBM.PMR41158.JOB4.D

01:10 PM CEST

Support ETL (IBM)

No call generated. Call without CSTATUS exists on Queue: WDB2U,117

01:10 PM CEST

Support ETL (IBM)

Untersed data now available on MCEVS1-System :

/ecurep/pmr/4/1/41158,010,678/mtftp13/41158.010.678.SIBM.PMR41158.JOB3.
D19190.e.TDCDBB.MTFTP.F001

->ONTOP.GS010.P41158.C678.SIBM.PMR41158.JOB3.D

01:09 PM CEST

Support ETL (IBM)

No call generated. Call without CSTATUS exists on Queue: WDB2U,117

01:09 PM CEST

Support ETL (IBM)

Multiple file transfer

41158.010.678.SIBM.PMR41158.JOB5.D19190.e.TDD51C.MTFTP received:

Directory: /ecurep/pmr/4/1/41158,010,678/mtftp14

4 files total size: 217088 bytes

01:08 PM CEST

Support ETL (IBM)

No call generated. Call without CSTATUS exists on Queue: WDB2U,117

01:08 PM CEST

Support ETL (IBM)

First file of multiple file transfer

41158.010.678.SIBM.PMR41158.JOB5.D19190.e.TDD51C.MTFTP received

01:07 PM CEST

Support ETL (IBM)

No call generated. Call without CSTATUS exists on Queue: WDB2U,117

01:07 PM CEST

Support ETL (IBM)

Multiple file transfer

41158.010.678.SIBM.PMR41158.JOB3.D19190.e.TDCDBB.MTFTP received:

Directory: /ecurep/pmr/4/1/41158,010,678/mtftp13

4 files total size: 217088 bytes

01:07 PM CEST

Support ETL (IBM)

No call generated. Call without CSTATUS exists on Queue: WDB2U,117

01:07 PM CEST

Support ETL (IBM)

Multiple file transfer

41158.010.678.SIBM.PMR41158.JOB4.D19190.e.TDD16A.MTFTP received:

Directory: /ecurep/pmr/4/1/41158,010,678/mtftp12

4 files total size: 217088 bytes

01:06 PM CEST

Support ETL (IBM)

No call generated. Call without CSTATUS exists on Queue: WDB2U,117

01:06 PM CEST

Support ETL (IBM)

First file of multiple file transfer

41158.010.678.SIBM.PMR41158.JOB3.D19190.e.TDCDBB.MTFTP received

01:06 PM CEST

Support ETL (IBM)

No call generated. Call without CSTATUS exists on Queue: WDB2U,117

01:06 PM CEST

Support ETL (IBM)

Multiple file transfer

41158.010.678.SIBM.PMR41158.JOB2.D19190.e.TDC9F7.MTFTP received:

Directory: /ecurep/pmr/4/1/41158,010,678/mtftp11

4 files total size: 266240 bytes

01:05 PM CEST

Support ETL (IBM)

No call generated. Call without CSTATUS exists on Queue: WDB2U,117

01:05 PM CEST

Support ETL (IBM)

First file of multiple file transfer

41158.010.678.SIBM.PMR41158.JOB2.D19190.e.TDC9F7.MTFTP received

01:05 PM CEST

Support ETL (IBM)

No call generated. Call without CSTATUS exists on Queue: WDB2U,117

01:05 PM CEST

Support ETL (IBM)

Multiple file transfer

41158.010.678.SIBM.PMR41158.JOB1.D19190.e.TDC647.MTFTP received:

Directory: /ecurep/pmr/4/1/41158,010,678/mtftp10

4 files total size: 217088 bytes

01:05 PM CEST

Support ETL (IBM)

No call generated. Call without CSTATUS exists on Queue: WDB2U,117

01:05 PM CEST

Support ETL (IBM)

Untersed data now available on MCEVS1-System :

/ecurep/pmr/4/1/41158,010,678/mtftp09/41158.010.678.SIBM.PMR41158.OPERL

OG.D19190.e.TDC1B6.MTFTP.F001

->ONTOP.GS010.P41158.C678.SIBM.PMR41158.OPERLO

01:04 PM CEST

Support ETL (IBM)

No call generated. Call without CSTATUS exists on Queue: WDB2U,117

01:04 PM CEST

Support ETL (IBM)

First file of multiple file transfer

41158.010.678.SIBM.PMR41158.JOB1.D19190.e.TDC647.MTFTP received

01:04 PM CEST

Support ETL (IBM)

*** Electronic submission by customer via SR tool, version 3.4.16d

*** Preferred contact method: Email-address.

.
Additional comments

3 of the 5 jobs abended with

ADR935W (002)-TOMI (03), 2019.190 11:35:49 A FAILURE

SET

/POUP@danskebank.dk

01:03 PM CEST

Support ETL (IBM)

No call generated. Call without CSTATUS exists on Queue: WDB2U,117

01:03 PM CEST

Support ETL (IBM)

Multiple file transfer

41158.010.678.SIBM.PMR41158.OPERLOG.D19190.e.TDC1B6.MTFTP received:

Directory: /ecurep/pmr/4/1/41158,010,678/mtftp09

4 files total size: 13119488 bytes

12:59 PM CEST

Support ETL (IBM)

*** Electronic submission by customer via SR tool, version 3.4.16d

*** Preferred contact method: Email-address.

.

Additional comments

we have run 5 jobs today

JOBNAME JobID Owner

C000201I JOB20530 C000201 - outside DB2

C000201I JOB21416 C000201 - inside db2

C000201I JOB25159 C000201 - inside db2 - failed

C000201I JOB26923 C000201 - inside db2 failed

C000201I JOB20009 C000201 - inside db2 failed

we will send the operlog and sysout for the 5 jobs

/poup@danskebank.dk

.

12:52 PM CEST

Support ETL (IBM)

*** Electronic submission by customer via SR tool, version 3.4.16d

*** Preferred contact method: Email-address.

.

Additional comments

Well - One more. This time when we use the DSNUTILB function. Four runs on a 75 GB tablespace/dataset.

First time went well, but the dataset is held for like 4 mins. The other three times it failed with below messages. We ALSO need assistance to understand the diagnosis informations send when ADRDSSU executes. See message ADR935W.

ADR730W (002)-CVSAM(01), CLUSTER DEDA.DSNDBC.CC00011D.CC00001B.I0001.

A001 IS OPEN

ADR935W (002)-TOMI (03), 2019.190 12:43:13 A FAILURE OCCURRED WHILE ATTEMPTING TO PERFORM FAST REPLICATION FOR DATA

SET

DEDA.DSNDBC.CC00011D.CC00001B.I0001.A001 ON
VOLUME G2DT46.

DIAGNOSTIC INFORMATION: 00001E1B-
08040FAE

ADR938E (002)-MOVER(01), FASTREPLICATION(REQUIRED) WAS SPECIFIED BUT
FAST REPLICATION COULD NOT BE USED FOR DATA SET

DEDA.DSNDBC.CC00011D.CC00001B.I0001.

A001

ADR801I (002)-DDDS (01), 2019.190 12:43:13 DATA SET FILTERING IS COMPLETE. 1 OF 1 DATA SETS WERE SELECTED: 0 FAILED

SERIALIZATION

AND 0 FAILED FOR OTHER

REASONS

ADR455W (002)-DDDS (01), THE FOLLOWING DATA SETS WERE NOT SUCCESSFULLY PROCESSED

DEDA.DSNDBC.CC00011D.CC00001B.I0001.

A001

ADR006I (002)-STEND(02), 2019.190 12:43:13 EXECUTION

ENDS

ADR013I (002)-CLTSK(01), 2019.190 12:43:13 TASK COMPLETED WITH RETURN CODE 0008

.

11:34 AM CEST

Support ETL (IBM)

Action Taken/Plan:

Hello,

Thanks for your update. Can you please send us syslog as requested?

Thank you! Jin Di, Db2/z client success.

10:58 AM CEST

Support ETL (IBM)

*** Electronic submission by customer via SR tool, version 3.4.16d

*** Preferred contact method: Email-address.

.

Additional comments

I am pretty sure that the Montpellier test team have several GDPS/PPRC dual leg setups. This is a normal a-b and a-c mirroring and the suspend is as expected in such environment on one leg.

IF you have such environment it could be relevant for you to evaluate if you face same issue just by doing a simple ADRDSSU copy job like shown earlier?

.

10:39 AM CEST

Support ETL (IBM)

Action Taken/Plan:

Hello,

Please read update from DFSMS co-worker, and provide the information they need.

Thank you! Jin Di, Db2/z client success.

10:38 AM CEST

Support ETL (IBM)

To WDB2U,117 for Jin Di's attention.

09:54 AM CEST

Support ETL (IBM)

Hello Jindi,

I need more information of this environment consisting of GDPS/PPRC dual leg configuration. Is it that primary A (connected to MVSB ??) sync to two secondary B and C with C flashcopy to D ? About the duplex pending, where is the device 76BC located ?

-

Is this a new setup and so you start to see this prolong processing even though fast replication is used ? Or the jobs have run okay but suddenly ran slow for unknown reason ?

-

Please terse and upload a SYSLOG (OPERLOG) covering the time frame of the problem batch job(s) for my review. As this issue is solid, I may need a GTF trace to investigate about the job/IO flow. Thanks.

Brgds. - Tom Wai

Action taken: reviewed docs; update PMR as above for further info/doc.

Action plan : await the requested info/doc to continue the diagnosis.

8 Jul 2019

11:34 AM CEST

Support ETL (IBM)

Action taken:

ONTOP.GS010.P41158.C678.SIBM.PMR41158.CHECK shows:

```
-----  
ADR006I 2019.186 09:57:11 EXECUTION BEGINS  
ADR711I DATA SET DEDA.DSNDBC.CC00011D.CC00001B.I0001.A001 HAS BEEN  
ALLOCATED WITH NEWNAME DEDA.DSNDBC.CC00011D.CC00001B.J0001.A00  
USING STORCLAS SCHYL, DATACLAS DCEXTESC, AND MGMTCLAS MCSYSNOB  
ADR806I DATA SET DEDA.DSNDBC.CC00011D.CC00001B.I0001.A001 COPIED USING  
A FAST REPLICATION FUNCTION  
ADR801I 2019.186 09:59:03 DATA SET FILTERING IS COMPLETE. 1 OF 1 DATA  
SETS WERE SELECTED: 0 FAILED SERIALIZATION AND 0 FAILED FOR  
OTHER REASONS  
ADR454I THE FOLLOWING DATA SETS WERE SUCCESSFULLY PROCESSED  
DEDA.DSNDBC.CC00011D.CC00001B.I0001.A001  
ADR006I 2019.186 09:59:03 EXECUTION ENDS
```

-

Action plan : continue the review.

10:11 AM CEST

Support ETL (IBM)

Action taken: DB2 SME Jindi pinged me to help to review this PMR from DEV (SDM - Flashcopy / PPRC) perspective on why the CHECK LOB job taking so long time (about 2 minutes) when flashcopy is used.

-

ONTOP.GS010.P41158.C678.SIBM.PMR41158.CHECK (Joblog)
ONTOP.GS010.P41158.C678.SIBM.PMR41158.GD (Duplex pending)

-

Action plan : review.

TW/ TOMWAI

09:40 AM CEST

Support ETL (IBM)

Action Taken/Plan:

Hello,

Please help check this problem from DFSMS perspective.

Thank you! Jin Di, Db2/z client success.

09:38 AM CEST

Support ETL (IBM)

Action Taken/Plan:

Hello,

So the problem is FLASHCOPY took about 2 mins, it is expected to be finished very soon.

ONTOP.GS010.P41158.C678.SIBM.PMR41158.CHECK:
DSNU421I 186 09:57:11.81 DSNUKCPX - START OF DFSMS MESSAGES

ADR012I (SCH)-DSSU (01), 2019.186 09:59:03 DFSMSDSS PROCESSING COMPLETE.
HIGHEST RETURN CODE IS 0000
DSNU422I 186 09:59:03.98 DSNUKCPX - END OF DFSMS MESSAGE

I will discuss with DFSMS co-worker about the extends an elapsed time of flashcopy.

Also I notice DSN6SPRM|FLASHCOPY_PPRC |FLASHCOPY PPRC
|REQUIRED, preserve mirror is required.

Thank you! Jin Di, Db2/z client success.

6 Jul 2019

10:18 PM CEST

Support ETL (IBM)

*** Electronic submission by customer via SR tool, version 3.4.16d

*** Preferred contact method: Email-address.

.

Additional comments
just for information
Jose findings was good -
our problem is that we think that we cannot use this
as - shrlevel change - when we actually are real only in
1bout 100 - 120 seconds
and when the shadow dataset is allocated it is extended
at least 2400 times - that takes a lot of time-
the shadow dataset should be allocated with near the
original dataset size so we dont use so much time to
allocate more than 2400 the extends
poup@danskebank.dk

12:11 PM CEST

Support ETL (IBM)

Your Db2 Client Success Team would like to inform you that IBM z will soon be moving to a new improved and user friendly Support site which will replace the IBM Service Request Tool.

More information can be found here and will be kept updated as we get closer to the move: <http://ibm.biz/Zsupport> (tag CSP5526 July6)

5 Jul 2019

02:45 PM CEST

Support ETL (IBM)

No call generated. Queue (ENTRYQUEUE) ZWDB2,117 is defined to disable secondary call creation.

02:45 PM CEST

Support ETL (IBM)

Untersed data now available on MCEVS1-System :
/ecurep/pmr/4/1/41158,010,678/mtftp08/41158.010.678.SIBM.PMR41158.GDPS.
SETUP.e.TEADFC.MTFTP.F001
->ONTOP.GS010.P41158.C678.SIBM.PMR41158.GDPS.S

02:41 PM CEST

Support ETL (IBM)

No call generated. Queue (ENTRYQUEUE) ZWDB2,117 is defined to disable secondary call creation.

02:41 PM CEST

Support ETL (IBM)

Multiple file transfer
41158.010.678.SIBM.PMR41158.GDPS.SETUP.e.TEADFC.MTFTP received:
Directory: /ecurep/pmr/4/1/41158,010,678/mtftp08
2 files total size: 4096 bytes

02:41 PM CEST

Support ETL (IBM)

Hello UT

could we please have your opinion on Jose findings and customer reply about this UTRO status duration during Check Lob Utility shrlevel change?

Best Regards

Alfredo (Db2 duty)

02:31 PM CEST

Support ETL (IBM)

*** Electronic submission by customer via SR tool, version 3.4.16d

*** Preferred contact method: Email-address.

.

Additional comments

the overall problem is that we think we are far to long in RW/UTRO mode

.

02:27 PM CEST

Support ETL (IBM)

*** Electronic submission by customer via SR tool, version 3.4.16d

*** Preferred contact method: Email-address.

.

Additional comments

we are also running GDPS/PPRC dual leg configuration

.

02:06 PM CEST

Support ETL (IBM)

*** Electronic submission by customer via SR tool, version 3.4.16d

*** Preferred contact method: Email-address.

.

Additional comments

in the manual its says

FCNOCOPY specifies that if FlashCopy® is used to perform the copy operation, then the ESS subsystem does not perform a physical copy of the data. If FCNOCOPY is not specified and FlashCopy is used to perform the operation, then the ESS subsystem performs a physical copy of the data in order to release the subsystem resources that are used to maintain the FlashCopy relationship (a virtual copy of the data).

in the CHECK LOB job we both see COPY and FCNOCOPY

5695-DF175 DFSMSDSS V2R02.0 DATA SET
PARALLEL
ADR101I (R/I)-RI01 (01), TASKID 001 HAS BEEN ASSIGNE
COPY DATASET(FILTERDD(SYS00001)) DEBUG(FRMSG(DTL))-
REPLACEUNCONDITIONAL RENCUNC(-
(*.*.*.I0001.*;.*.*.J0001.*), -
(*.*.*.J0001.*;.*.*.I0001.*)) -
OUTDYNAM(-
(G2DT46))-
FCNOCOPY FASTREPLICATION(REQUIRED) -
FCTOPPRCPRIAMRY(PRESMIRREQ) -
SHARE CANCELERROR TOLERATE(ENQFAILURE) -
VOLCOUNT(ANY) TGTALLOC(SRC)
ADR101I (R/I)-RI01 (01), TASKID 002 HAS BEEN ASSIGNE

is it a real physical copy thats being done in the job
to the shadow dataset.
we have done 51877 EXCP

----- Timings -----

CPU Run EXCP CONN
0:16,56 7:31,52 51877 20626

0:16,56 7:31,53

.
01:53 PM CEST

Support ETL (IBM)

Hello MF Support,

.
Thanks for the additional info sent.

.
However on the output of provided DSN1LOGP entries which I can see are
not related with the Joblog of execution of Check LOB Shrlevel Chage
execution which I reviewed on previous update -> that one was executed
during timeframe from 09:57:11.71 till 10:04:15.72 (Local hour) and
the DSN1LOGP records which you have sent are for 10:28:

.
However on that DSN1LOGP output I canb see that during execution of
that Check Lob Shrlevel Change TS CC00011D.CC00001B was on UTRO status
from 10:28:23 till 10:30:05 -> 1 minute and 42 seconds -> which is the
time required to perform the shadow Copies for involved TS and Indexes
(similar to on the execution whose Joblog I studied):

.
000000006B8E0AB985A MEMBER(DED A) TYPE(UNDO REDO)
URID(000000006B8E0AB97A0)
LRSN(00D65FB2972FF1184C00) DBID(05CF) OBID(0004) 10:28:23 19.186

SUBTYPE(DBE TABLE WITH EXCEPTION DATA)

.

UNDO: CC00011D.CC00001B

NO EXCEPTION STATES SET

REDO: CC00011D.CC00001B Utility: CHECK LOB SHRLEVEL CHANGE

-- FIRST UTILITY TURNED ON FOR OBJECT --

TURNED ON UTRW

NO. OF UTRW UTILITIES: 1

...

0000000006B8E0ABE3DB MEMBER(DEDATA) TYPE(UNDO REDO)

URID(0000000006B8E0ABE321)

LRSN(00D65FB29732320A3A00) DBID(05CF) OBID(0004) 10:28:23 19.186

SUBTYPE(DBE TABLE WITH EXCEPTION DATA)

.

UNDO: CC00011D.CC00001B

NO. OF UTRW UTILITIES: 1

REDO: CC00011D.CC00001B Utility: CHECK LOB SHRLEVEL CHANGE

-- FIRST UTILITY TURNED ON FOR OBJECT --

SWITCH UTRW TO UTRO <----

UTRO

NO. OF UTRO UTILITIES: 1

...

0000000006B8E0AD22C4 MEMBER(DEDATA) TYPE(UNDO REDO)

URID(0000000006B8E0AD220A)

LRSN(00D65FB2F7BB8B395A00) DBID(05CF) OBID(0004) 10:30:05 19.186

SUBTYPE(DBE TABLE WITH EXCEPTION DATA)

...

UNDO: CC00011D.CC00001B

UTRO

NO. OF UTRO UTILITIES: 1

REDO: CC00011D.CC00001B Utility: CHECK LOB SHRLEVEL CHANG

-- FIRST UTILITY TURNED ON FOR OBJECT --

SWITCH UTRO TO UTRW <---

NO. OF UTRW UTILITIES: 1

.

So it seems to me that such time (between 102 till 112 seconds) is the time required to perform the Shadow Copies for involved TS and Indexes required during Check Lob Shrlevel Change execution and as documented also on Db2 for Z/OS Utility Guide and Reference during that timeframe is expected that TS and Indexes will be in UTRO status:

.

CHANGE

.

Specifies that applications can read from and write to the index, tablespace, or partition that is to be checked.

.

If you specify SHRLEVEL CHANGE, Db2 performs the following actions:

- vDrains all writers and forces the buffers to disk for the specified object and all of its indexes

- vInvokes DFSMSdss to copy the specified object and all of its indexes to shadow data sets <--- During this timeframe objects in UTRO

- vEnables read-write access for the specified object and all of its indexes <--- Objects set back in UTRW status

- vRuns CHECK INDEX on the shadow data sets

By default, DFSMSdss uses FlashCopy to copy Db2 objects to shadow datasets, if FlashCopy is available. If DFSMSdss cannot use FlashCopy, DFSMSdss uses a slower method. As a result, creating copies of objects might take a long time, and the time during which the data and indexes have read-only access might increase. You can set the CHECK_FASTREPLICATION subsystem parameter to REQUIRED to force the CHECK utility to use only FlashCopy. If FlashCopy is not available, the CHECK utility fails

So If you are already using FlashCopy to perform the copies of TS and Indexes to shadow datasets (at you are doing as Zparm CHECK_FASTREPLICATION is set to REQUIRED) your objects would be on UTRO status the lower possible time -> just the time required to copy involved objects and its indexes to shadow datasets (around 102 till 112 second for this TS and its Indexes).

Please let us know if you require anything else regarding this PMR or We can proceed with each closure.

Thank you very much in advance for your help with this issue
Best Regards - Jose Ignacio (Db2 for Z/OS Client Success Team)
12:55 PM CEST

Support ETL (IBM)

No call generated. Queue (ENTRYQUEUE) ZWDB2,117 is defined to disable secondary call creation.

12:55 PM CEST

Support ETL (IBM)

Untersed data now available on MCEVS1-System :
/ecurep/pmr/4/1/41158,010,678/mtftp07/41158.010.678.SIBM.PMR41158.DSN1L
OGP.e.TD1C3D.MTFTP.F001
->ONTOP.GS010.P41158.C678.SIBM.PMR41158.DSN1LO

12:50 PM CEST

Support ETL (IBM)

No call generated. Queue (ENTRYQUEUE) ZWDB2,117 is defined to disable secondary call creation.

12:50 PM CEST

Support ETL (IBM)

Multiple file transfer

41158.010.678.SIBM.PMR41158.DSN1LOGP.e.TD1C3D.MTFTP received:

Directory: /ecurep/pmr/4/1/41158,010,678/mtftp07

4 files total size: 53248 bytes

12:50 PM CEST

Support ETL (IBM)

No call generated. Queue (ENTRYQUEUE) ZWDB2,117 is defined to disable secondary call creation.

12:50 PM CEST

Support ETL (IBM)

Untersed data now available on MCEVS1-System :

/ecurep/pmr/4/1/41158,010,678/mtftp06/41158.010.678.SIBM.PMR41158.DSNZP
ARM.e.TD1847.MTFTP.F001

->ONTOP.GS010.P41158.C678.SIBM.PMR41158.DSNZPA

12:49 PM CEST

Support ETL (IBM)

Multiple file transfer

41158.010.678.SIBM.PMR41158.DSNZPARM.e.TD1847.MTFTP received:

Directory: /ecurep/pmr/4/1/41158,010,678/mtftp06

4 files total size: 61440 bytes

11:59 AM CEST

Support ETL (IBM)

Hello MF Support,

.

This is Jose Ignacio from Db2 for Z/OS Client Success Team.

.

If I have understood correctly your opening update on this PMR you want to report that during a execution of Check Lob Utility with Shrlevel Change you have noticed (via a Display Database command) that the TS for which you were executing the Check Lob Shrlevel Change Utility was on status RW,UTRO and I suppose you were not expecting the status UTRO, right??

.

Please confirm that my understanding of reported issue is correct

.

DIAGNOSE TYPE(100,101,102)
CHECK LOB TABLESPACE CC00011D.CC00001B
SHRLEVEL CHANGE PUNCHDDN SYSPUNCH

...

DSNT397I -DEDA 192
NAME TYPE PART STATUS CONNID CORRID

CC00001B LS RW,UTRO UTILITY C000201I

- MEMBER NAME DEDA

***** DISPLAY OF DATABASE CC00011D ENDED *****

.

If so. I have found an interesting PMR in our Databases in which it is explained why during execution of Check Lob Utility (in their case it is a Check on an Auxiliary Index) we can have timeframes in which the involved TS will be in UTRO status. On that PMR it is written the following:

.

CHECK INDEX SHRLEVEL CHANGE caused UTRO status

.

Problem description and business impact

Hi,

Received this from DBA team:

.

I ran into an interesting thing today. I needed to run a CHECK INDEX job and so I set one up to run as SHRLEVEL CHANGE, but when I checked the status of my object, it was in RW,UTRO instead of RW,UTRW. According to the manual, the utility should have put the object in UTRW.

.

Here are the control cards I used in my job. The index in question is a LOB index. Any thoughts on why this isn't putting the object in UTRW status?

```
CHECK INDEX (RQP02.RQL2001I )
SHRLEVEL CHANGE
DRAIN_WAIT 10 RETRY 5 RETRY_DELAY 120
SORTDEVT SYSWK
```

...

And here is the display:

```
DSNT362I -DY0T DATABASE = RQP0201D STATUS =
RW
DBD LENGTH =
149396
DSNT397I -
DY0T
NAME TYPE PART STATUS PHYERRLO PHYERRHI CATALOG
PIECE
```

```
RQL2001S LS RW,
UTRO
RQL2001I IX RW,
UTRO
```

***** DISPLAY OF DATABASE

...

Action Taken:

If you specify SHRLEVEL CHANGE, DB2 performs the following actions:

- .
Drains all writers and forces the buffers to disk for the specified object and all of its indexes
- .
Invokes DFSMSdss to copy the specified object and all of its indexes to shadow data sets
- .
Enables read/write access for the specified object and all of its indexes
- .
Runs CHECK INDEX on the shadow data sets
- .
By default, DFSMSdss uses FlashCopy® to copy DB2 objects to shadow data sets, if FlashCopy is available. If DFSMSdss cannot use FlashCopy, DFSMSdss uses a slower method. As a result, creating copies of objects might take a long time, and the time during which the data and indexes have read-only access might increase. You can set the CHECK_FASTREPLICATION subsystem parameter to REQUIRED to force the CHECK utility to use only FlashCopy. If FlashCopy is not available, the CHECK utility fails.

...
As Patrick mentioned, the objects will be drained for writers, which means they will be in UTRO status until the objects are copied to the shadows. Once that piece is complete, they will be returned to UTRW status for the rest of the CHECK INDEX processing.

...
Basically though, having the objects in UTRO status for during the set up of the shadows is as designed and documented.

...
The UTRO status will last as long as it takes to copy the data sets to the shadows. So it is dependent on the method of copy - eg. FLASH or not - and the amount of data to be copied. It works best if FLASHCOPY can be used. Some customers set the zparm CHECK_FASTREPLICATION to REQUIRED, so that if FLASHCOPY can't be used, the utility fails. They would prefer that to an extended UTRO status while using a slower copy method.

.
So basically during a execution of Check Lob Shrlevel Change objects (included the TS for which we are executing the Check Lob) will be in UTRO status during the timeframe in which DB2 for Z/OS invokes DFSMSdss to copy the specified object and all of its indexes to shadow data sets

.
That time of UTRO status will be less if the time to take the Copies is less -> In your case it seems that you are using Flashcopy righth? ->

Could you please check if you have Zparm CHECK_FASTREPLICATION set to REQUIRED?.

.
In your case based on the Joblog which you have sent I would expect that TS will remain on UTRO status during the time required to obtain the Shadow Copy -> 112 seconds (concretely from around 09:57:11 till 09:59:03)based on that Subphase statistics:

.
INTERVAL = SHADOW COPY CREATION CPU (SEC) = 0.005536
LEVEL = UTILINIT SUBPROCESS ELAPSED TIME (SEC) = 112.243
DDNAME DS OPEN DS CLOSE READ I/O WRITE I/O I/O CHECKS

SYS00001 1 1 1 1
TOTAL 1 1 1 1

.
DSNU050I 09:57:11.73 DSNUGUTC - CHECK LOB TABLESPACE
CC00011D.CC00001B SHRLEVEL CHANGE PUNCHDDN SYSPUNCH
DSNU421I 09:57:11.81 DSNUKCPX - START OF DFSMS MESSAGES

.
ADR109I (R/I)-RI01 (01), 2019.186 09:57:11 INITIAL SCAN OF USER CONTROL STATEMENTS COMPLETED

ADR014I (SCH)-DSSU (02), 2019.186 09:57:11 ALL PREVIOUSLY SCHEDULED 10:42 AM CEST

Support ETL (IBM)

*** Electronic submission by customer via SR tool, version 3.4.16d

*** Preferred contact method: Email-address.

.
Additional comments

this shows svc 26 usage is high
SIBM.PMR41158.APA.TRACE.DISPLAY

THIS shows RW/UTRO while we run check

SIBM.PMR41158.E15183.LOB.SYSOUT.DISPLAY
SIBM.PMR41158.CHECK.LOB.SYSOUT.DISPLAY

sys1.dump while we run check
SIBM.PMR41158.CHECK.LOB.SYSOUT.SYS1DUMP

DB2 account while we run check
SIBM.PMR41158.DB2.ACCOUNT

/poup@danskebank.dk

.
10:40 AM CEST

Support ETL (IBM)

No call generated. Queue (ENTRYQUEUE) ZWDB2,117 is defined to disable secondary call creation.

10:40 AM CEST

Support ETL (IBM)

Untersed data now available on MCEVS1-System :

/ecurep/pmr/4/1/41158,010,678/mtftp05/41158.010.678.SIBM.PMR41158.DB2.A
CCOUNT.e.TB3FD1.MTFTP.F001

->ONTOP.GS010.P41158.C678.SIBM.PMR41158.DB2.AC

10:40 AM CEST

Support ETL (IBM)

No call generated. Queue (ENTRYQUEUE) ZWDB2,117 is defined to disable secondary call creation.

10:40 AM CEST

Support ETL (IBM)

Untersed data now available on MCEVS1-System :

/ecurep/pmr/4/1/41158,010,678/mtftp03/41158.010.678.SIBM.PMR41158.CHECK
.LOB.SYSOUT.SYS1DUMP.e.TB3C29.MTFTP.F001

->ONTOP.GS010.P41158.C678.SIBM.PMR41158.CHE.OL

10:40 AM CEST

Support ETL (IBM)

No call generated. Queue (ENTRYQUEUE) ZWDB2,117 is defined to disable secondary call creation.

10:40 AM CEST

Support ETL (IBM)

Untersed data now available on MCEVS1-System :

/ecurep/pmr/4/1/41158,010,678/mtftp04/41158.010.678.SIBM.PMR41158.E1518
3.LOB.SYSOUT.DISPLAY.e.TB4395.MTFTP.F001

->ONTOP.GS010.P41158.C678.SIBM.PMR41158.E15183

10:38 AM CEST

Support ETL (IBM)

No call generated. Queue (ENTRYQUEUE) ZWDB2,117 is defined to disable secondary call creation.

10:38 AM CEST

Support ETL (IBM)

Multiple file transfer

41158.010.678.SIBM.PMR41158.DB2.ACCOUNT.e.TB3FD1.MTFTP received:

Directory: /ecurep/pmr/4/1/41158,010,678/mtftp05

4 files total size: 147456 bytes

10:38 AM CEST

Support ETL (IBM)

No call generated. Queue (ENTRYQUEUE) ZWDB2,117 is defined to disable secondary call creation.

10:38 AM CEST

Support ETL (IBM)

Multiple file transfer

41158.010.678.SIBM.PMR41158.E15183.LOB.SYSOUT.DISPLAY.e.TB4395.MTFTP

received:

Directory: /ecurep/pmr/4/1/41158,010,678/mtftp04

4 files total size: 135168 bytes

10:37 AM CEST

Support ETL (IBM)

No call generated. Queue (ENTRYQUEUE) ZWDB2,117 is defined to disable secondary call creation.

10:37 AM CEST

Support ETL (IBM)

First file of multiple file transfer

41158.010.678.SIBM.PMR41158.E15183.LOB.SYSOUT.DISPLAY.e.TB4395.MTFTP

received

10:36 AM CEST

Support ETL (IBM)

No call generated. Call without CSTATUS exists on Queue: ZWDB2,117

10:36 AM CEST

Support ETL (IBM)

First file of multiple file transfer

41158.010.678.SIBM.PMR41158.DB2.ACCOUNT.e.TB3FD1.MTFTP received

10:35 AM CEST

Support ETL (IBM)

No call generated. Call without CSTATUS exists on Queue: ZWDB2,117

10:35 AM CEST

Support ETL (IBM)

Untersed data now available on MCEVS1-System :

/ecurep/pmr/4/1/41158,010,678/mtftp00/41158.010.678.SIBM.PMR41158.CHECK

.LOB.SYS1DUMP.e.TB193A.MTFTP.F001

->ONTOP.GS010.P41158.C678.SIBM.PMR41158.CHE.I9

10:35 AM CEST

Support ETL (IBM)

No call generated. Call without CSTATUS exists on Queue: ZWDB2,117

10:35 AM CEST

Support ETL (IBM)

Multiple file transfer

41158.010.678.SIBM.PMR41158.CHECK.LOB.SYSOUT.SYS1DUMP.e.TB3C29.MTFTP

received:

Directory: /ecurep/pmr/4/1/41158,010,678/mtftp03

4 files total size: 221184 bytes

10:35 AM CEST

Support ETL (IBM)

*** Electronic submission by customer via SR tool, version 3.4.16d

*** Preferred contact method: Email-address.

.
Additional comments

poup@danskebank.dk
+45 30688126

.
10:35 AM CEST

Support ETL (IBM)

No call generated. Call without CSTATUS exists on Queue: ZWDB2,117

10:35 AM CEST

Support ETL (IBM)

Untersed data now available on MCEVS1-System :

/ecurep/pmr/4/1/41158,010,678/mtftp01/41158.010.678.SIBM.PMR41158.APA.T

RACE.DISPLAY.e.TB3734.MTFTP.F001

->ONTOP.GS010.P41158.C678.SIBM.PMR41158.APA.TR

10:35 AM CEST

Support ETL (IBM)

No call generated. Call without CSTATUS exists on Queue: ZWDB2,117

10:35 AM CEST

Support ETL (IBM)

Untersed data now available on MCEVS1-System :

/ecurep/pmr/4/1/41158,010,678/mtftp02/41158.010.678.SIBM.PMR41158.CHECK

.LOB.SYSOUT.DISPLAY.e.TB3878.MTFTP.F001

->ONTOP.GS010.P41158.C678.SIBM.PMR41158.CHECK

10:34 AM CEST

Support ETL (IBM)

No call generated. Call without CSTATUS exists on Queue: ZWDB2,117

10:34 AM CEST

Support ETL (IBM)

Multiple file transfer

41158.010.678.SIBM.PMR41158.CHECK.LOB.SYSOUT.DISPLAY.e.TB3878.MTFTP

received:

Directory: /ecurep/pmr/4/1/41158,010,678/mtftp02

4 files total size: 225280 bytes

10:34 AM CEST

Support ETL (IBM)

No call generated. Call without CSTATUS exists on Queue: ZWDB2,117

10:34 AM CEST

Support ETL (IBM)

Multiple file transfer

41158.010.678.SIBM.PMR41158.APA.TRACE.DISPLAY.e.TB3734.MTFTP received:

Directory: /ecurep/pmr/4/1/41158,010,678/mtftp01

2 files total size: 4096 bytes

10:34 AM CEST

Support ETL (IBM)

*** Electronic submission by customer via SR tool, version 3.4.16d

*** Preferred contact method: Email-address.

.

Additional comments

key used for transmit:

CIPHER_KEY=Secret20Cipher17Key

.

10:27 AM CEST

Support ETL (IBM)

No call generated. Queue (ENTRYQUEUE) ZWDB2,117 is defined to disable secondary call creation.

10:27 AM CEST

Support ETL (IBM)

Multiple file transfer

41158.010.678.SIBM.PMR41158.CHECK.LOB.SYS1DUMP.e.TB193A.MTFTP received:

Directory: /ecurep/pmr/4/1/41158,010,678/mtftp00

7 files total size: 2056421376 bytes

09:54 AM CEST

Support ETL (IBM)

This looks like archive pmr PMR 79554,442,000

09:51 AM CEST

Support ETL (IBM)

*** Electronic submission by customer via SR tool, version 3.4.16d

*** Preferred contact method: Email-address.

.

Additional comments

datasetname:

extents

CC00011D.CC00001B.I0001.A001 1388160

CC00011D.CC00001B.J0001.A001 1388160

CC00011D.CC00001B.I0001.A001 492

CC00011D.CC00001B.J0001.A001 2165

i looks like we are using a lot of time in SVC 26

from teh APA trace we have run:

the CHECK is run with DIAGNOSE TYPE(100,101,102)

DIAGNOSE TYPE(100,101,102)

CHECK LOB TABLESPACE CC00011D.CC00001B

SHRLEVEL CHANGE PUNCHDDN SYSPUNCH

.

09:40 AM CEST

Support ETL (IBM)

*** Electronic submission by customer via SR tool, version 3.4.16d

*** Preferred contact method: Email-address.

.

Additional comments

when we run CHECK LOB flashcopy the amount of time where the LOB
tablespace is in status RW/UTRO

is very long.

.

09:01 AM CEST

Support ETL (IBM)

*** Electronic submission by customer via SR tool, version 3.4.16d

*** Preferred contact method: Email-address.

.

Problem Details

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Product or Service: DB2 11 for z/OS - Base 11.1.0

Component ID: 5740XYR00

.

Operating System: z/OS

.

Problem title

ETS DB DB2 11 nfm RW/UTRO check lob shrlevel change

.

Problem description and business impact

we are running:

DIAGNOSE TYPE(100,101,102)

CHECK LOB TABLESPACE CC00011D.CC00001B

SHRLEVEL CHANGE PUNCHDDN SYSPUNCH

using:

5695-DF175 DFSMSDSS V2R02.0 DATA SET SERVICES

DSNT397I -DEDA 192

NAME TYPE PART STATUS CONNID CORRID

CC00001B LS RW,UTRO UTILITY C000201I

- MEMBER NAME DEDA

***** DISPLAY OF DATABASE CC00011D ENDED *****

.

*** --- FOR SR USE ONLY ---

*** XRQXSRprNode1601562309648772

*** CAG849304 ENG Y

*** MTS

*** 5697P43:B10/5740XYR00:B1Z (PREF)